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OM protein - protein search, using sw model

Run on: March 18, 2004, 06:01:47 ; Search time 42 Seconds
(without alignments)

1220.789 Million cell updates/sec

Title: US-09-966-880A-8

Perfect score: 1086
Sequence: 1 MDSLMMRRKFLYQFQVNRW.....ILLPLYVDLADARRTGL 198

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database: Published Applications_AA.*

1: /cgn2_6/ptodata/2/pubppa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubppa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubppa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubppa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubppa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubppa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubppa/US08_NEW_PUB.pep.*
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13: /cgn2_6/ptodata/2/pubppa/US10A_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1086	100.0	198	9	US-09-966-880A-8
2	1008	92.8	198	9	US-09-966-880A-8
3	390	35.9	189	15	US-10-460-923-5
4	390	35.9	384	9	US-09-729-674-174
5	390	35.9	384	15	US-10-460-923-2
6	369.5	34.0	222	9	US-09-925-300-1639
7	363.5	33.5	199	15	US-10-460-923-7
8	349	32.1	210	15	US-10-460-923-4
9	300	27.6	152	14	US-10-247-671-159
10	238.5	22.0	195	15	US-10-460-923-3
11	230	21.2	219	15	US-10-460-923-6
12	218.5	20.1	236	14	US-10-157-031-14
13	216.5	19.9	226	15	US-10-460-923-8
14	211	19.4	229	9	US-09-966-880A-36
15	198	18.2	127	15	US-10-104-047-3729

16	167	15.4	128	15	US-10-378-029-77	Sequence 77, Appl
17	154	14.2	151	14	US-10-029-386-34155	Sequence 34155, A
18	84	7.7	51	9	US-09-864-761-38853	Sequence 38853, A
19	81	7.5	440	13	US-10-120-319-3	Sequence 3, Appl1
20	81	7.5	440	14	US-10-189-977-3	Sequence 3, Appl1
21	81	7.5	440	14	US-10-392-098-3	Sequence 3, Appl1
22	80	7.4	476	9	US-09-733-524-15	Sequence 15, Appl
23	80	7.4	476	13	US-10-120-319-5	Sequence 5, Appl1
24	80	7.4	476	14	US-10-189-977-5	Sequence 5, Appl1
25	80	7.4	476	14	US-10-392-098-5	Sequence 5, Appl1
26	77.5	7.1	261	10	US-09-851-873-55	Sequence 55, Appl
27	77.5	7.1	663	13	US-10-369-493-6748	Sequence 6748, Ap
28	77.5	7.1	663	15	US-10-080-960-14	Sequence 14, Appl
29	77.5	7.1	663	14	US-10-247-671-135	Sequence 135, App
30	77	7.1	790	14	US-10-153-668-164	Sequence 164, App
31	76.5	7.0	122	12	US-10-424-599-143617	Sequence 143617,
32	76.5	7.0	214	12	US-10-424-599-182345	Sequence 182345,
33	76.5	7.0	223	12	US-10-425-114-47947	Sequence 47947, A
34	75.5	7.0	382	10	US-09-847-808-25	Sequence 25, Appl
35	75	6.9	330	14	US-10-265-593-4	Sequence 4, Appl
36	75	6.9	354	12	US-10-087-684-63	Sequence 63, Appl
37	75	6.9	354	12	US-10-218-779-63	Sequence 63, Appl
38	75	6.9	354	12	US-10-072-012-615	Sequence 615, App
39	75	6.9	401	12	US-10-072-012-581	Sequence 581, App
40	74	6.8	200	10	US-09-851-873-65	Sequence 65, Appl
41	74	6.8	707	15	US-10-014-099F-61	Sequence 61, Appl
42	74	6.8	1291	15	US-10-452-024-122	Sequence 122, App
43	73.5	6.8	257	12	US-10-425-114-482048	Sequence 42048, A
44	73.5	6.8	427	12	US-10-425-114-48829	Sequence 48829, A
45	73	6.7	336	12	US-10-282-122A-68246	Sequence 68246, A

ALIGNMENTS

RESULT 1	US-09-966-880A-8	Application US/09966880A
Sequence 8, Appl1	Patent No. US20020164743A1	
GENERAL INFORMATION:		
APPLICANT: Honjo, Tasuku		
APPLICANT: Muramatsu, Masamichi		
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE		
FILE REFERENCE: 06501-088001		
CURRENT APPLICATION NUMBER: US/09/966,880A		
CURRENT FILING DATE: 2001-09-28		
PRIOR APPLICATION NUMBER: PCT/JP00/01918		
PRIOR FILING DATE: 2000-03-28		
PRIOR APPLICATION NUMBER: JP 11-371382		
PRIOR FILING DATE: 1999-12-27		
PRIOR APPLICATION NUMBER: JP 11-178999		
PRIOR FILING DATE: 1999-06-24		
PRIOR APPLICATION NUMBER: JP 11-87192		
PRIOR FILING DATE: 1999-03-29		
NUMBER OF SEQ ID NOS: 36		
SOFTWARE: FastSeq for Windows Version 4.0		
SEQ ID NO 8		
TYPE: PRT		
ORGANISM: Homo sapiens		
US-09-966-880A-8		
Query Match	100.0%	Score 1086; DB 9; Length 198;
Best Local Similarity	100.0%	Pred. No. 8.1e-114; Indels 0; Gaps 0;
Matches 198; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Cy	1	MDSLMMRRKFLYQFQVNRWAGRRRTYLCTVVRBRDSATSFSIDFGILRNKNCHEVELL 60
Db	1	MDSLMMRRKFLYQFQVNRWAGRRRTYLCTVVRBRDSATSFSIDFGILRNKNCHEVELL 60
Cy	61	FLRITSDVDDLPGRICRYVTWTSWSPCYDCARHVAFLRGNPNLSIRITFLRLYFCGRDK 120
Db	61	FLRITSDVDDLPGRICRYVTWTSWSPCYDCARHVAFLRGNPNLSIRITFLRLYFCGRDK 120

QY 121 AEPGLRLHRAAGVQIIMTFKDYFCMNTFVNHERTFKAMGHLHNSVRLSRQRLRL 180
DB 121 AEPGLRLHRAAGVQIIMTFKDYFCMNTFVNHERTFKAMGHLHNSVRLSRQRLRL 180
QY 181 LPLVEVDLDRDAFRTLG 198
DB 181 LPLVEVDLDRDAFRTLG 198

RESULT 2
US-09-966-880A-2
Sequence 2, Application US/09966880A
Patent No. US2002016473A1
GENERAL INFORMATION:
APPLICANT: Honjo, Tasaku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966, 880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 198
TYPE: PRT
ORGANISM: Mus musculus
US-09-966-880A-2

Query Match 92.8%; Score 1008; DB 9; Length 198;
Best Local Similarity 92.9%; Pred. No. 4.8e-105;
Matches 183; Conservative 6; Mismatches 8; Indels 0; Gaps 0;
QY 1 MDSLMMRKFLYQFKVWAKGRRETYLCYVVRSDSATSFLDPSGLRNKSGCHEVLL 60
DB 1 MDSLMMRKFLYQFKVWAKGRRETYLCYVVRSDSATSFLDPSGLRNKSGCHEVLL 60
QY 61 FLRYISDMDLDPGRCYRVWFTSPCYDCARHVADELGNPNLSRIPTARLYFCEDRX 120
DB 61 FLRYISDMDLDPGRCYRVWFTSPCYDCARHVADELGNPNLSRIPTARLYFCEDRX 120
QY 121 AEPGLRLHRAAGVQIIMTFKDYFCMNTFVNHERTFKAMGHLHNSVRLSRQRLRL 180
DB 121 AEPGLRLHRAAGVQIIMTFKDYFCMNTFVNHERTFKAMGHLHNSVRLSRQRLRL 180
QY 181 LPLVEVDLDRDAFRTLG 197
DB 181 LPLVEVDLDRDAFRTLG 197

RESULT 3
US-10-460-923-5
Sequence 5, Application US/10460923
Patent No. US2004000951A1
GENERAL INFORMATION:
APPLICANT: MALIN, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Denaturation Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT APPLICATION NUMBER: US/10/460, 923

CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/388, 513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472, 952
PRIOR FILING DATE: 2003-05-23
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 189
TYPE: PRT
ORGANISM: Homo sapiens
US-10-460-923-5

Query Match 35.9%; Score 390; DB 15; Length 189;
Best Local Similarity 44.9%; Pred. No. 1.5e-35;
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;
QY 6 MRRKFLYQFKVWAKGRRETYLCYVVRSDSATSFLDPSGLRNKSGCHEVLL 55
DB 2 MDPPTFTFNPNNEPVRGRHETLYCYEYERHNDTWLNLNQRGFLCQAPHKHGFLEGR 61
QY 56 HVELLFLRYISDMDLDPGRCYRVWFTSPCYDCARHVADELGNPNLSRIPTARLYFC 115
DB 62 HVELLFLRYISDMDLDPGRCYRVWFTSPCYDCARHVADELGNPNLSRIPTARLYFC 120
QY 116 CEDRAEPEGLRLHRAAGVQIIMTFKDYFCMNTFVNHERTFKAMGHLHNSVRLSRQ 175
DB 121 DDGRCQEGRLTALEAKAKISINTYSEFKHCMDTFVDHQCPCPQMDGLDEHSQDLGR 179
QY 176 LRLRL 180
DB 180 LRLRL 184

RESULT 4
US-09-729-674-174
Sequence 174, Application US/09729674
Patent No. US20010039335A1
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John M.
APPLICANT: Collins-Racie, Lisa A.
APPLICANT: Evans, Cheryl
APPLICANT: Werberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Agostino, Michael J.
APPLICANT: Steinger II, Robert J.
APPLICANT: Spaulding, Vikki
APPLICANT: Wong, Gordon G.
APPLICANT: Clark, Hilary
APPLICANT: Fechtel, Kim
APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYPEPTIDES ENCODING THEM
FILE REFERENCE: 6055-64X
CURRENT APPLICATION NUMBER: US/09/729, 674
CURRENT FILING DATE: 2000-12-04
PRIOR APPLICATION NUMBER: 09/539, 330
PRIOR FILING DATE: 2000-03-30
NUMBER OF SEQ ID NOS: 283
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 174
LENGTH: 384
TYPE: PRT
ORGANISM: Homo sapiens
US-09-729-674-174

Query Match 35.9%; Score 390; DB 9; Length 384;
Best Local Similarity 44.9%; Pred. No. 3.8e-35;
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;
QY 6 MRRKFLYQFKVWAKGRRETYLCYVVRSDSATSFLDPSGLRNKSGCHEVLL 55

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Db      197 MDPTFTFNNENPNWVGRHETLYCYVEEMNDTWYLNORRGLFNCQAPKRGFLBGR 256
QY      56 HVELLFRLYISDWLDPGRRCRYVTWFTSMSPCYDCARHVADFLRGNPNLSLRIFLARYF 115
Db      257 HAEICFDLVPFWLTLDDQYRVTCFTSMSPCSCAQEMAKFISKKNHVSLSLCTFARIY- 315
QY      116 CEDRKAEPFGLRLHRAAGVOIAIMTFDYFCWNTFVENHERTFKAMEGLHENSVALSQQ 175
Db      316 -DDGRCQEGRLTLAEAGAKISIMTYSEFKHCMDTFVDHQCCEFPQWGLDHSQDLGR 374
QY      176 LRRIL 180
Db      375 LRAIL 379

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RESULT 5
US-10-460-923-2
Sequence 2, Application US/10460923
Publication No. US2004009951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT APPLICATION NUMBER: US/10/460,923
PRIOR FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/388,513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472,952
PRIOR FILING DATE: 2003-05-23
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 384
TYPE: PRT
ORGANISM: Homo sapiens
US-10-460-923-2

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Query Match      35.8%; Score 390; DB 15; Length 384;
Best Local Similarity 44.9%; Pred. No. 3.8e-35;
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;

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QY      6 MNRKFLYQFKYRWAKGRRETYLCYVKKRDSATSFSLD--FGYLNRK-----NGC 55
Db      197 MDPTFTFNNENPNWVGRHETLYCYVEEMNDTWYLNORRGLFNCQAPKRGFLBGR 256
QY      56 HVELLFRLYISDWLDPGRRCRYVTWFTSMSPCYDCARHVADFLRGNPNLSLRIFLARYF 115
Db      257 HAEICFDLVPFWLTLDDQYRVTCFTSMSPCSCAQEMAKFISKKNHVSLSLCTFARIY- 315
QY      116 CEDRKAEPFGLRLHRAAGVOIAIMTFDYFCWNTFVENHERTFKAMEGLHENSVALSQQ 175
Db      316 -DDGRCQEGRLTLAEAGAKISIMTYSEFKHCMDTFVDHQCCEFPQWGLDHSQDLGR 374
QY      176 LRRIL 180
Db      375 LRAIL 379

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RESULT 6
US-09-925-300-1639
Sequence 1639, Application US/09925300
Patent No. US20020151681A1
GENERAL INFORMATION:
APPLICANT: Craig Ruben,
APPLICANT: Steve Ruben,
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA101

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CURRENT APPLICATION NUMBER: US/09/925,300
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1639
LENGTH: 222
TYPE: PRT
ORGANISM: Homo sapiens
US-09-925-300-1639

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Query Match      34.0%; Score 369.5; DB 9; Length 222;
Best Local Similarity 43.5%; Pred. No. 1.6e-32;
Matches 79; Conservative 24; Mismatches 64; Indels 9; Gaps 4;

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QY      11 FLYQFKYRWAKGRRETYLCYVKK--RRDSATSFSLDGYLRN---KNGCHVELLFRLY 64
Db      49 FYQFKYRWAKGRRETYLCYVKK--RRDSATSFSLDGYLRN---KNGCHVELLFRLY 106
QY      65 ISDWLDPGRRCRYVTWFTSMSPCYDCARHVADFLRGNPNLSLRIFLARYCEDRKAEP 124
Db      107 FCDLISENTYKQYVTWFTSMSPCYDCARHVADFLRGNPNLSLRIFLARYFQ-YPYQ 165
QY      125 GLRLHRAAGVOIAIMTFDYFCWNTFVENHERTFKAMEGLHENSVALSQQRLRIL 180
Db      166 GLRLHRAAGVOIAIMTFDYFCWNTFVENHERTFKAMEGLHENSVALSQQRLRIL 221

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RESULT 7
US-10-460-923-7
Sequence 7, Application US/10460923
Publication No. US2004009951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT APPLICATION NUMBER: US/10/460,923
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/388,513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472,952
PRIOR FILING DATE: 2003-05-23
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 199
TYPE: PRT
ORGANISM: Homo sapiens
US-10-460-923-7

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Query Match      33.5%; Score 363.5; DB 15; Length 199;
Best Local Similarity 43.5%; Pred. No. 1.6e-32;
Matches 83; Conservative 28; Mismatches 57; Indels 23; Gaps 7;

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QY      5 LMRKFLYQFKYRWAKGRRETYLCYVKKRDSATSFSLD--FGYLNRK-----G 54
Db      12 LMDPFTFNNENPNWVGRHETLYCYVEEMNDTWYLNORRGLFNCQAPKRGFLBGR 68
QY      55 HVELLFRLYISDWLDPGRRCRYVTWFTSMSPCYDCARHVADFLRGNPNLSLRIFLARYF 112
Db      69 HAEICFDLVPFWLTLDDQYRVTCFTSMSPCSCAQEMAKFISKKNHVSLSLCTFARIY- 128
QY      113 LYCEDRKAEP--EGLRLHRAAGVOIAIMTFDYFCWNTFVENHERTFKAMEGLHENS 169

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DB 129 IV-----DYDPLYKEALQMLRDAGQVSIWYDEFEKICMDTFVDHQCSPFQWMDGLDENS 183
QY 170 VLSRQRLRIL 180
DB 184 QALSGRLRAL 194

RESULT 8
US-10-460-923-4
; Sequence 4, Application US/10460923
; Publication No. US20040009951A1
; GENERAL INFORMATION:
; APPLICANT: MALIM, Michael H.
; APPLICANT: SHEEHY, Ann M.
; APPLICANT: HARRIS, Reuben S.
; APPLICANT: BISHOP, Kate N.
; APPLICANT: NEUBERGER, Michael S.
; APPLICANT: GADDIS, Nathan C.
; APPLICANT: SIMON, James H.M.
; TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
; FILE REFERENCE: 22253-74380
; CURRENT APPLICATION NUMBER: US/10/460,923
; CURRENT FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/388,513
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 60/472,952
; PRIOR FILING DATE: 2003-05-23
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: mouse orthologue
US-10-460-923-4

Query Match 32.1%; Score 349; DB 15; Length 210;
Best Local Similarity 38.8%; Pred. No. 7.2e-31;
Matches 71; Conservative 36; Mismatches 72; Indels 4; Gaps 2;

QY 5 LMNRKFLYQKFNVMKAGRETELYCYVVKRDSATSFSLDFGLRKNGCHVELLF 64
DB 20 LISQTFEFHFKNRYALDRKDTFLCYEVTRKDCDSVSLHGVFKKNDIHAICFLYW 79
QY 65 ISD--WDLDGRCYRVWTFWTSWSPCYDCARHVADFLRGPNLSLRIFTRALYFCEDRKA 121
DB 80 FHDKYLKTLSPREBKITWWSWSPCECAEQVLRFLATHNLSLDFSSRLYNINRPN 139
QY 122 EPEGRLRLHAGVQIATMTFQDYCYCNTPFVNHERTFKAMEGLHENSVALSRQLRIL 181
DB 140 Q-QNLCRLVQGAQVAAADLYEFKKCWKKFVNDGRRFRPWKLLTFRYQDSKLTQETLR 198
QY 182 PLY 184
DB 199 PCY 201

RESULT 9
US-10-247-671-159
; Sequence 159, Application US/10247671
; Publication No. US20030194721A1
; GENERAL INFORMATION:
; APPLICANT: Mikita, Thomas
; APPLICANT: Shiftman, Dov
; APPLICANT: Porter, Gordon, J.
; APPLICANT: Kaser, Matthew R.
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS
; FILE REFERENCE: PA-0050 US
; CURRENT APPLICATION NUMBER: US/10/247,671
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/323,784
; PRIOR FILING DATE: 2001-09-19

; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: PERL Program
; SEQ ID NO 159
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20030194721A1 135626CD1
US-10-247-671-159

Query Match 27.6%; Score 300; DB 14; Length 152;
Best Local Similarity 44.9%; Pred. No. 1.6e-25;
Matches 66; Conservative 20; Mismatches 43; Indels 18; Gaps 5;

QY 47 GYLRN--KN-----GCHVELLFRLYISDMDLDPGRCYRVWTFWTSWSPCYD--CARHVAD 96
DB 6 GFLHNQAKLDCGFYGRHAELRFLDLPVSLQDPAQIYRVWTFWTSWSPCFSGCAGEVRA 65
QY 97 FLRGPNLSLRIFTRALYFCEDRKAEP--EGLRRLHAGVQIATMTFQDYCYCNTPFVE 153
DB 66 FLQENTHVRIRIFARIT-----DYDPLYKEALQMLRDAGQVSIWYDEFEKICMDTFV 120
QY 154 NHERTFKAMEGLHENSVALSRQLRIL 180
DB 121 ROGCFQFQWMDGLEHSGALSGRLRAL 147

RESULT 10
US-10-460-923-3
; Sequence 3, Application US/10460923
; Publication No. US20040009951A1
; GENERAL INFORMATION:
; APPLICANT: MALIM, Michael H.
; APPLICANT: SHEEHY, Ann M.
; APPLICANT: HARRIS, Reuben S.
; APPLICANT: BISHOP, Kate N.
; APPLICANT: NEUBERGER, Michael S.
; APPLICANT: GADDIS, Nathan C.
; APPLICANT: SIMON, James H.M.
; TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
; FILE REFERENCE: 22253-74380
; CURRENT APPLICATION NUMBER: US/10/460,923
; CURRENT FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/388,513
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 60/472,952
; PRIOR FILING DATE: 2003-05-23
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 195
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-460-923-3

Query Match 22.0%; Score 238.5; DB 15; Length 195;
Best Local Similarity 34.2%; Pred. No. 1.8e-18;
Matches 63; Conservative 26; Mismatches 84; Indels 11; Gaps 6;

QY 6 MNRKFLYQKFNVMKAGRETELYCYVVKRDSATSFSLDF---GYLRNKGCHVELLF 61
DB 12 MYRDTFSNFTYRPLLSRBNWTWLCYEVKGPSNP-PLDAKIFPGCYSELKXHPERF 70
QY 62 LRIYSDW-DLDGRCYRVWTFWTSWSPCYDCARHVADFLRGPNLSLRIFTRALYFCEDRKA 120
DB 71 FHFQKRWRLHSDQYEVTWYISWSPCYKCRDVAWTFIAEDPKVTLTFVRLYFWMPD 130
QY 121 APEGRLRL--HRAQ--VOIATMTFQDYCYCNTPFVNHERTFKAMEGLHENSVALSRQL 176
DB 131 YQ-EALRSLCQGRDPRATMTKIMYDERQHCKSKYVSGRLFEFWMNLLPKXYILLHIML 189
QY 177 RRL 180
```

Db 190 GELI 193

RESULT 11

US-10-460-923-6

Sequence 6, Application US/10460923

Publication No. US2004000951A1

GENERAL INFORMATION:

APPLICANT: MALIM, Michael H.

APPLICANT: SHEEHY, Ann M.

APPLICANT: HARRIS, Reuben S.

APPLICANT: BISHOP, Kate N.

APPLICANT: NEUBERGER, Michael S.

APPLICANT: GADDIS, Nathan C.

APPLICANT: SIMON, James H.M.

TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection

FILE REFERENCE: 22253-74380

CURRENT APPLICATION NUMBER: US/10/460,923

CURRENT FILING DATE: 2003-06-13

PRIOR APPLICATION NUMBER: US 60/388,513

PRIOR FILING DATE: 2002-06-13

PRIOR APPLICATION NUMBER: US 60/472,952

PRIOR FILING DATE: 2003-05-23

NUMBER OF SEQ ID NOS: 12

SOFTWARE: PatentIn version 3.1

SEQ ID NO 6

LENGTH: 219

TYPE: PRT

ORGANISM: Unknown

FEATURE:

OTHER INFORMATION: mouse orthologue

US-10-460-923-6

Query Match

21.2%; Score 230; DB 15; Length 219;

Best Local Similarity 33.5%; Pred. No. 1.9e-17;

Matches 67; Conservative 35; Mismatches 82; Indels 16; Gaps 8;

QY 5 LNNRRKFLYQKXNR-----WAKGRRELYCYVKKRDASATSFSLDFGLRNKG-CHVE 58

DB 25 LLSEEEYFQFNQRYVHLCYHGK-PYLCQLEQFNQAPLK--GCLLSEKQNAE 80

QY 59 LLEIRYISMDLDPGRCRYRTWTSFGYCDCAHAYADLRGNPNLSLIFARLYPCED 118

DB 81 ILFLDKIRSNELSQ--VIITCYLTWSPPCNCAMQAAKRRPDLILAIYTSRLYFHWK 137

QY 119 RKAPEGLRLHAGVOIAIMTFKDYFCMTEFVENHRTFAMESLHENSVALSROLER 178

DB 138 RPFQ-KGLGSLWQSGILVMDLPQFTDCNTNFV-NPKKPFMPWKGLIISRTQRLHR 195

QY 179 ILPLYEVDLDRDAFRTLGI 198

DB 196 I-KESWGLQDLVNDPFGNLQI 214

RESULT 12

US-10-157-031-14

Sequence 14, Application US/10157031

Publication No. US20030108890A1

GENERAL INFORMATION:

APPLICANT: Baranova, A. V.

APPLICANT: Yankovsky, N. K.

APPLICANT: Kozlov, A. P.

APPLICANT: Lobachev, A. V.

APPLICANT: Krukovskaya, L. L.

TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences

FILE REFERENCE: 2760-103

CURRENT APPLICATION NUMBER: US/10/157,031

CURRENT FILING DATE: 2002-05-30

NUMBER OF SEQ ID NOS: 415

SOFTWARE: PatentIn version 3.1

SEQ ID NO 14

LENGTH: 236

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-157-031-14

Query Match 20.1%; Score 218.5; DB 14; Length 236;

Best Local Similarity 34.9%; Pred. No. 4e-16;

Matches 44; Conservative 31; Mismatches 42; Indels 9; Gaps 4;

QY 35 RRDATSFSLDFGLR-----NNGC-HYELLFL-RYISDWLDPGRCYRVWTFWSP 86

DB 33 RKEACLYEIKWMSRKIMSSGNTTNHVEVNFIKKFTSERDPHPSMCSITWFLMSP 92

QY 87 CYDCARHVDPLRGNPNLSLIFARLYPCEDRAEBSGRLHRAAGVOIAIMTFKDYF 146

DB 93 CWECQAIREFLSHRPVTLVIYARLFWMDQ-NRQGLRDLVNSGVTTQIMRASRYH 151

QY 147 CWNTEFV 152

DB 152 CWNTEFV 157

RESULT 13

US-10-460-923-8

Sequence 8, Application US/10460923

Publication No. US2004000951A1

GENERAL INFORMATION:

APPLICANT: MALIM, Michael H.

APPLICANT: SHEEHY, Ann M.

APPLICANT: HARRIS, Reuben S.

APPLICANT: BISHOP, Kate N.

APPLICANT: NEUBERGER, Michael S.

APPLICANT: GADDIS, Nathan C.

APPLICANT: SIMON, James H.M.

TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection

FILE REFERENCE: 22253-74380

CURRENT APPLICATION NUMBER: US/10/460,923

CURRENT FILING DATE: 2003-06-13

PRIOR APPLICATION NUMBER: US 60/388,513

PRIOR FILING DATE: 2002-06-13

PRIOR APPLICATION NUMBER: US 60/472,952

PRIOR FILING DATE: 2003-05-23

NUMBER OF SEQ ID NOS: 12

SOFTWARE: PatentIn version 3.1

SEQ ID NO 8

LENGTH: 236

TYPE: PRT

ORGANISM: Homo sapiens

US-10-460-923-8

Query Match 19.9%; Score 216.5; DB 15; Length 236;

Best Local Similarity 34.9%; Pred. No. 6.8e-16;

Matches 44; Conservative 31; Mismatches 42; Indels 9; Gaps 4;

QY 35 RRDATSFSLDFGLR-----NNGC-HYELLFL-RYISDWLDPGRCYRVWTFWSP 86

DB 33 RKEACLYEIKWMSRKIMSSGNTTNHVEVNFIKKFTSERDPHPSMCSITWFLMSP 92

QY 87 CYDCARHVDPLRGNPNLSLIFARLYPCEDRAEBSGRLHRAAGVOIAIMTFKDYF 146

DB 93 CWECQAIREFLSHRPVTLVIYARLFWMDQ-NRQGLRDLVNSGVTTQIMRASRYH 151

QY 147 CWNTEFV 152

DB 152 CWNTEFV 157

RESULT 14

US-09-966-880A-36

Sequence 36, Application US/09966880A

Patent No. US20020164743A1

GENERAL INFORMATION:

APPLICANT: Honjo, Tadeuku

APPLICANT: Muramatsu, Masamichi

